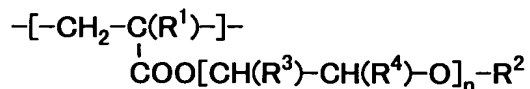


## ABSTRACT

A binder composition comprising a polymer dispersed in a liquid dispersion medium, wherein the polymer comprises structural units represented by the following formula:



wherein  $\text{R}^1$  is hydrogen, C1-4 alkyl group, or halogen,  $\text{R}^2$  is C1-20 alkyl group or C6-30 aryl group,  $\text{R}^3$  and  $\text{R}^4$  are hydrogen or methyl group, provided that  $\text{R}^3$  and  $\text{R}^4$  are not simultaneously methyl group, and  $n$  is an integer of 1 - 50. A lithium ion secondary battery having an electrode made by using this binder composition exhibits excellent characteristics at repetition of a charge-discharge cycle.

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